<u>CLAIMS</u>

- 1. A method of optimizing secretion of a heterologous polypeptide of interest in a cell comprising comparing the levels of expression of the polypeptide under control of a set of nucleic acid variants of a translation initiation region, wherein the set of variants represents a range of translational stre _stls, and determining the optimal translational strength for production of mature polypeptide, wherein the optimal translational strength is less than the translational strength of the wild-type translation initiation region.
- 2. The method of claim 1, wherein the variants comprise nucleic acid variants of a secretion signal sequence.
- 3. The method of claim 2, wherein the variant secretion signal sequences are variants of STII.
- 4. The method of claim 3, wherein the STII variants are the following variants
- 5' TCTAGAGGTTGAGGTGATTTT ATG AAA AAG AAT ATC GCA TTT CTT CTT
 GCA TCT ATG TTC GTT TTT TCT ATT GCT ACA AAY GCS TAT GCM 3' (SEQ ID NO:15);
 - 5' TCTAGAATT ATG AAA AAG AAT ATC GCA TTT CTT GCA TCT ATG TTC GTT TTT TCT ATT GCT ACA AAC GCG TAT GCM 3' (SEQ ID NO:16);
- 10
 5' TCTAGAATT ATG AAG AAG AAT ATT GCG TTC CTA CTT GCC TCT ATG TTT
 GTC TTT TCT ATA GCT ACA AAC GCG TAT GCM 3' (SEQ ID NO:17);
- 5' TCTAGAATT ATG AAG AAG AAT ATC GCA TTT CTT GCA TCT ATG TTC 15 GTT TTT TCT ATT GCT ACA AAC GCG TAT GCM 3' (SEQ ID NO:18);
 - 5' TCTAGAATT ATG AAA AAA AAC ATC GCA TTT CTT GCA TCT ATG TTC GTT TTT TCT ATT GCT ACA AAC GCG TAT GCM 3' (SEQ ID NO:19);
- 5' TCTAGAATT ATG AAA AAA AAC ATT GCC TTT CTT GCA TCT ATG TTC GTT TTT TCT ATT GCT ACA AAC GCG TAT GCM 3' (SEQ ID NO:20);
 - 5' TCTAGAATT ATG AAG AAA AAC ATC GCT TTT CTT GCA TCT ATG TTC GTT TTT TCT ATT GCT ACA AAC GCG TAT GCM 3' (SEQ ID NO:21);
- 25
 5' TCTAGAATT ATG AAA AAG AAC ATA GCG TTT CTT GCA TCT ATG TTC
 GTT TTT TCT ATT GCT ACA AAC GCG TAT GCM 3' (SEQ ID NO:22); and
- 5' TCTAGAGGTTGAGGTGATTTT ATG AAA AAA AAC ATC GCA TTT CTT CTT

 30 GCA TCT ATG TTC GTT TTT TCT ATT GCT ACA AAC GCG TAT GCM 3' (SEQ ID NO:23).